

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 April 2004 (01.04.2004)

PCT

(10) International Publication Number
WO 2004/026435 A1

(51) International Patent Classification⁷: **B01D 35/147,**
35/30, 29/15

NTZ Nederland BV, Sydneystraat 60, NL-3047 BP Rotterdam (NL). **BORGER, Ron** [NL/NL]; NTZ Nederland BV, Sydneystraat 60, NL-3140 AA Rotterdam (NL).

(21) International Application Number:
PCT/IB2003/004060

(81) Designated States (*national*): AU, BR, CN, IN, JP, KR, MX, US.

(22) International Filing Date:
19 September 2003 (19.09.2003)

(84) Designated States (*regional*): European patent (BE, CZ, DE, DK, ES, FR, GB, IT, NL, SE).

(25) Filing Language: English

Declarations under Rule 4.17:

(26) Publication Language: English

- as to the identity of the inventor (Rule 4.17(i)) for the following designations AU, BR, CN, IN, JP, KR, MX, European patent (BE, CZ, DE, DK, ES, FR, GB, IT, NL, SE)
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AU, BR, CN, IN, JP, KR, MX, European patent (BE, CZ, DE, DK, ES, FR, GB, IT, NL, SE)
- of inventorship (Rule 4.17(iv)) for US only

(30) Priority Data:
02078889.9 19 September 2002 (19.09.2002) EP

Published:

- with international search report

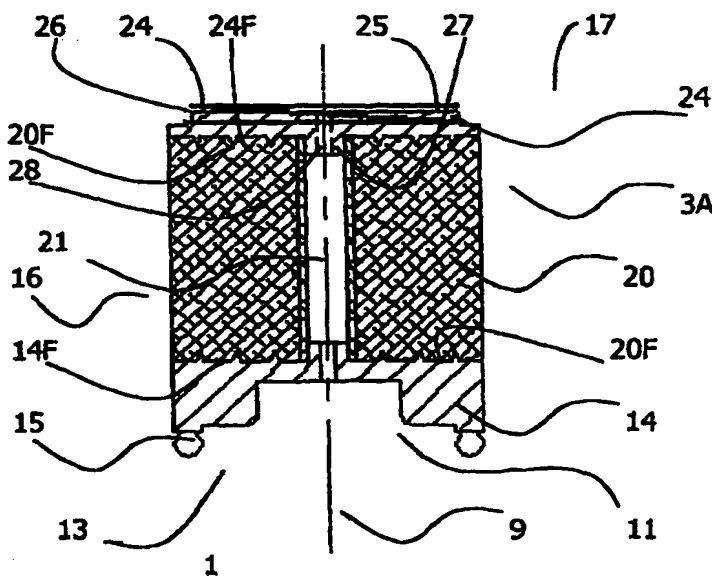
(71) Applicant (for all designated States except US): NTZ NEDERLAND BV [NL/NL]; P.O. Box 25, Sydney straat 60; 3047 BP ROTTERDAM, NL-3140 AA Maassluis (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): NIEWLAND, Pierre, Gerard [NL/NL]; P.O. Box 25, NL-3140 AA Maassluis (NL). SCHAERLAECKENS, Willy [NL/NL];

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MICRO FILTER DEVICE



(57) Abstract: Oil Filtering device (1) having micro filtration means, a housing (16) and a lid part (17) thereof, tightening means (10) for pressurised interconnection of lid (17) and housing (16), the device comprising an oil inlet port (3) for radial flow filtering of oil, and an oil outlet port (9) in connection with a cylindrical interior space (21) of said filter part (5; 20; 20A-20D). The axial end faces (20F; 20AF-20DF) of the filter element (20, 22) are formed by the filtering means (20) thereof, the device being provided with internal, essentially flattened filter end face contacting faces (14F, 24F, 16AF, 16BF, 17F), for axially closing a passage of oil, and having a diameter matching that of the filter part (5; 20; 20A-20D), said contacting faces each being part of the housing of the device, and being clamped to said filter end faces by the clamping means.

BEST AVAILABLE COPY

WO 2004/026435 A1